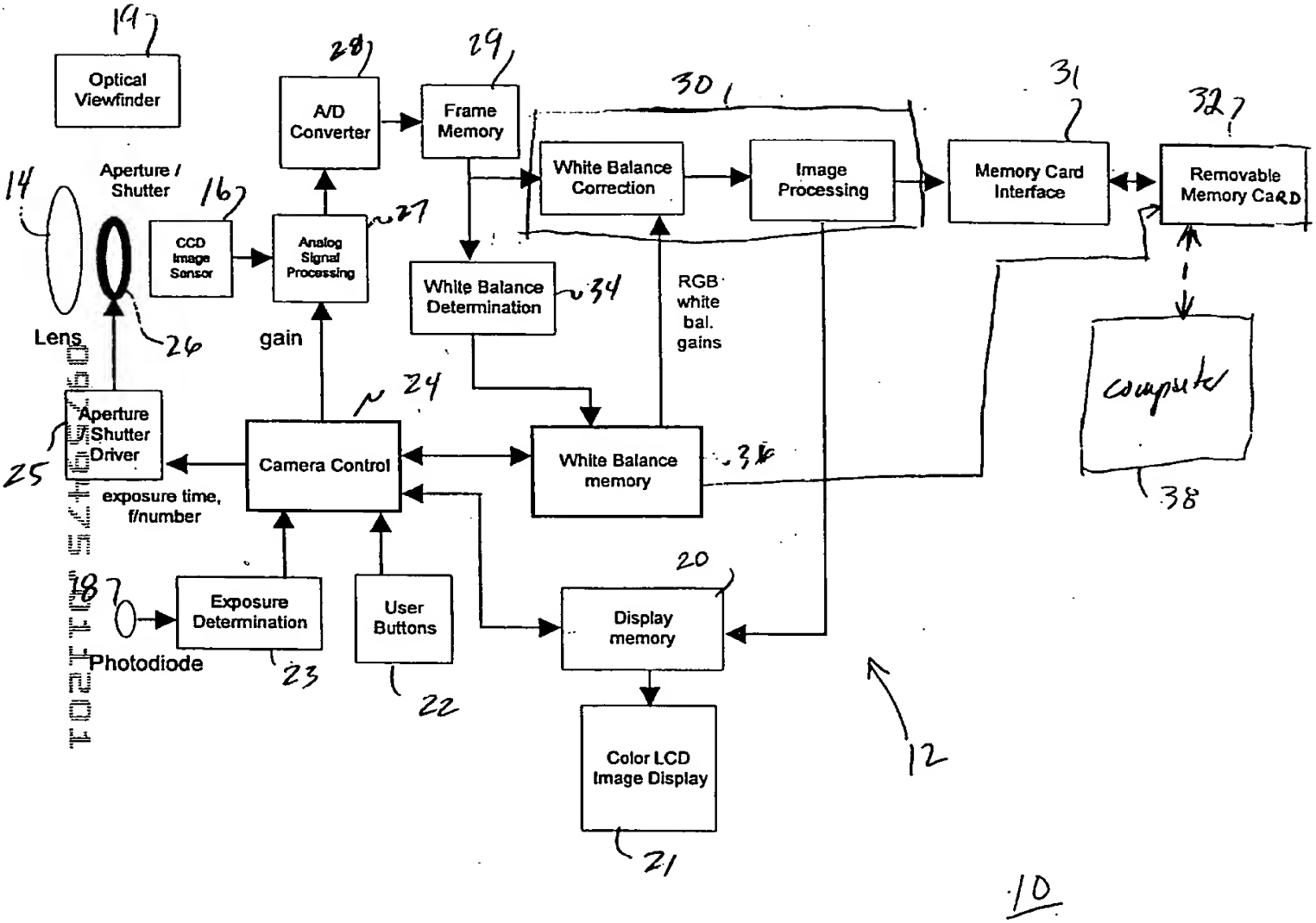
Figure 1.


Optical Viewfinder
A/D Converter
Frame Memory
White Balance Correction
Image Processing
Memory Card Interface
Removable Memory Card
Aperture / Shutter
CCD Image Sensor
Analog Signal Processing
White Balance Determination
RGB white bal. gains
Lens
gain
computer
Aperture Shutter Driver
Camera Control
White Balance memory
exposure time, f/number
Exposure Determination
User Buttons
Display memory
Photodiode
Color LCD Image Display
19
28
29
30
31
32
14
16
27
34
26
24
25
36
38
18
23
22
20
21
12
10

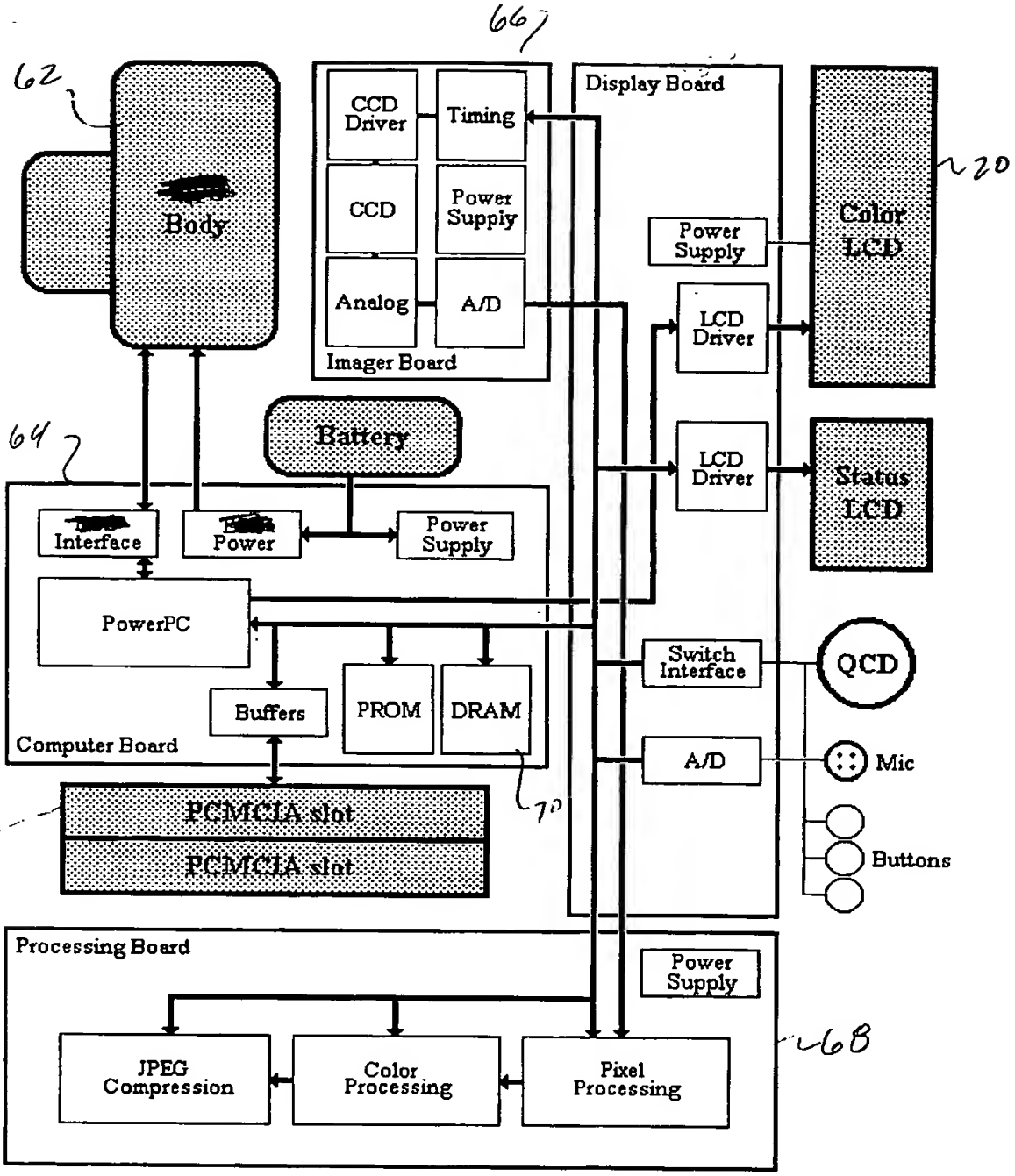

66
62
Body
CCD Driver
Timing
CCD
Power Supply
Analog
A/D
Imager Board
Display Board
Power Supply
Color LCD
20
LCD Driver
64
Battery
LCD Driver
Status LCD
Interface
Power
Power Supply
PowerPC
Switch Interface
QCD
Buffers
PROM
DRAM
Computer Board
A/D
Mic
70
72
PCMCIA slot
PCMCIA slot
Buttons
Processing Board
Power Supply
68
JPEG Compression
Color Processing
Pixel Processing

Figure 2

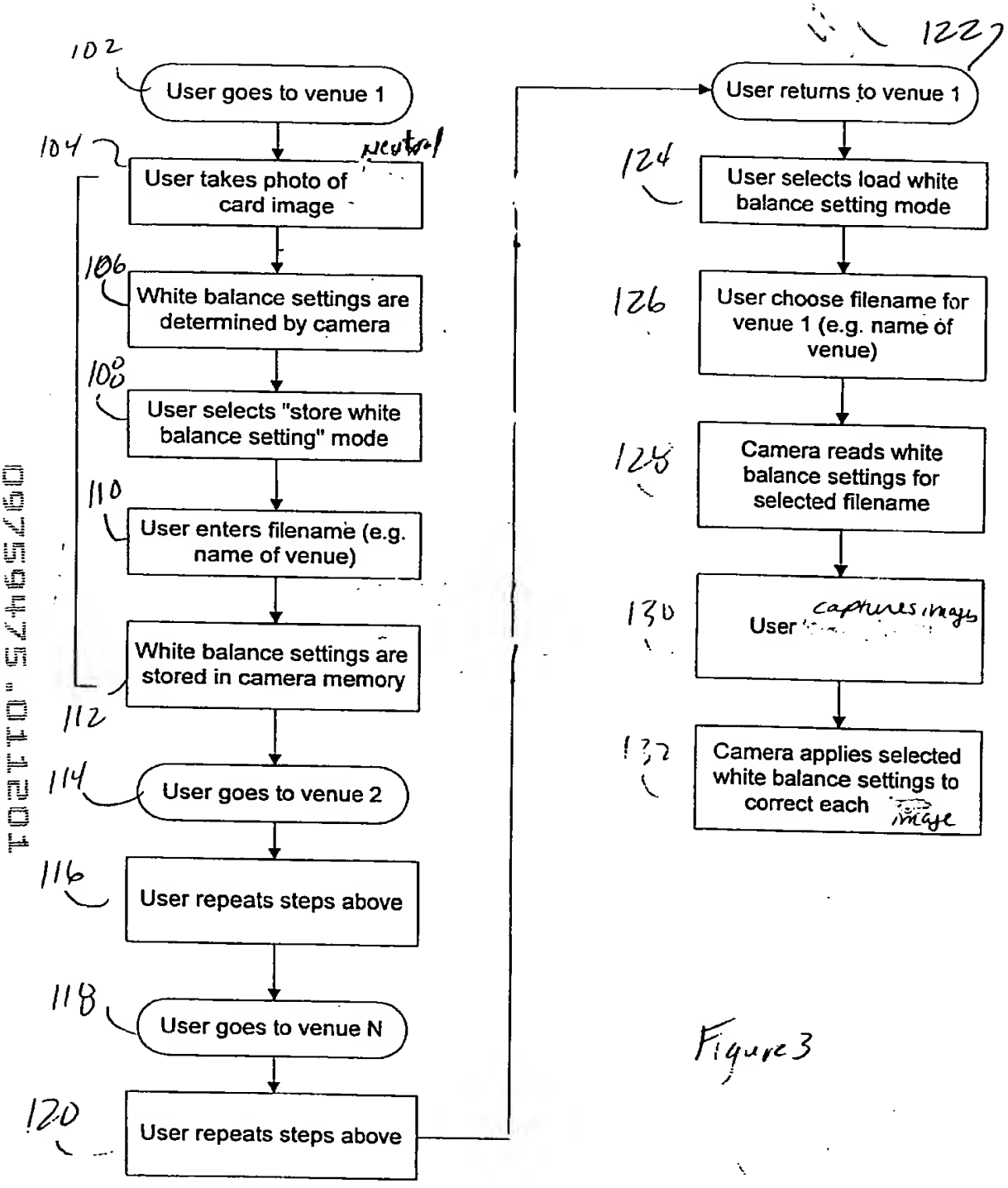

102
User goes to venue 1
104
User takes photo of card image
neutral
106
White balance settings are determined by camera
108
User selects "store white balance setting" mode
110
User enters filename (e.g. name of venue)
White balance settings are stored in camera memory
112
114
User goes to venue 2
116
User repeats steps above
118
User goes to venue N
120
User repeats steps above
122
User returns to venue 1
124
User selects load white balance setting mode
126
User choose filename for venue 1 (e.g. name of venue)
128
Camera reads white balance settings for selected filename
130
User captures image
132
Camera applies selected white balance settings to correct each image

Figure 3

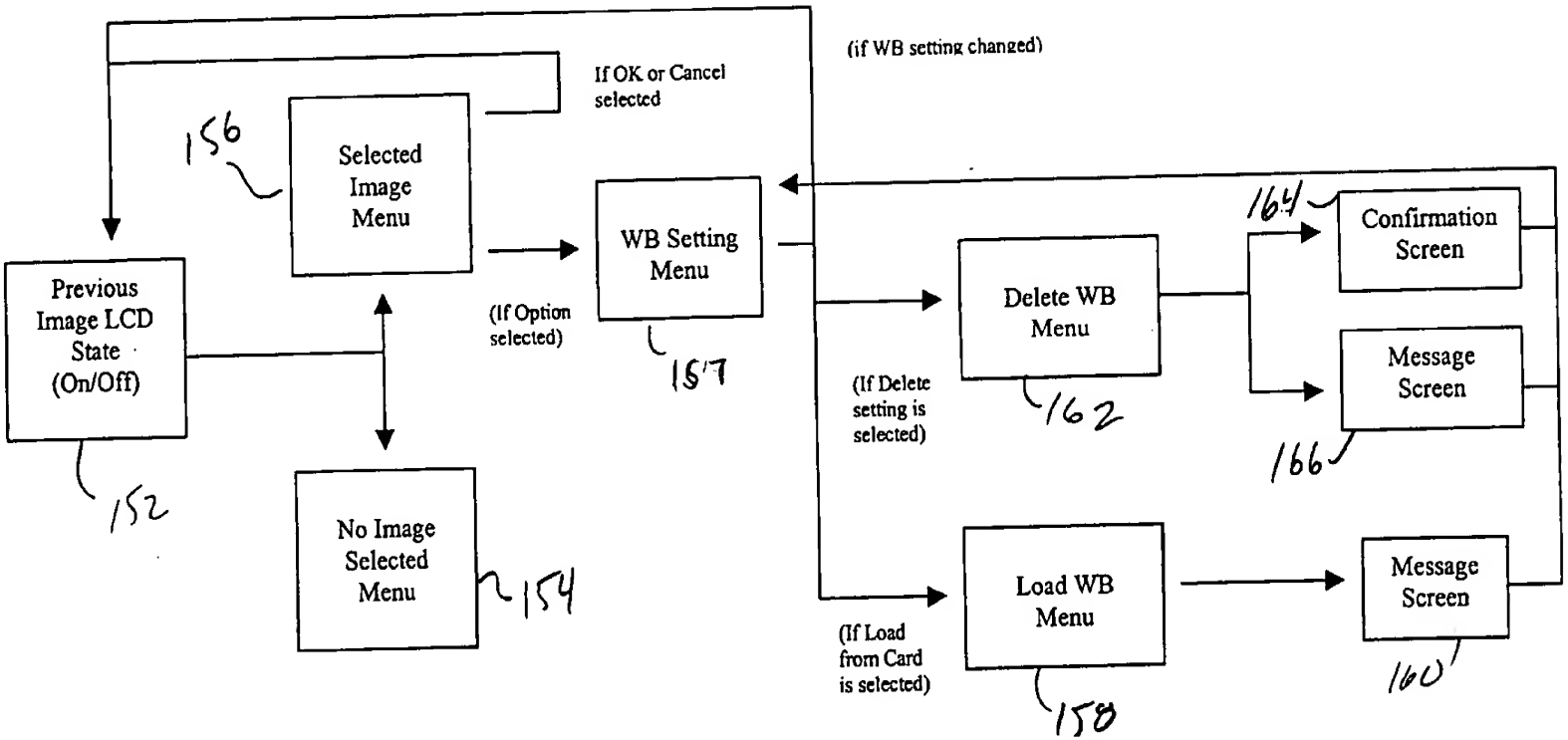

Previous Image LCD State (On/Off)
152
Selected Image Menu
156
No Image Selected Menu
154
If OK or Cancel selected
(If Option selected)
WB Setting Menu
157
(if WB setting changed)
(If Delete setting is selected)
Delete WB Menu
162
(If Load from Card is selected)
Load WB Menu
158
Confirmation Screen
164
Message Screen
166
Message Screen
160

Figure 4

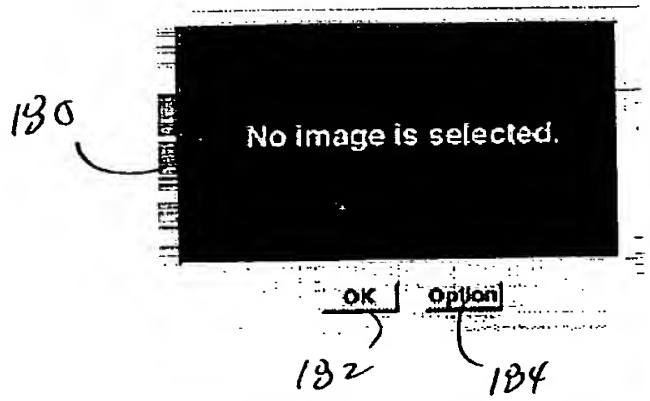


Figure 5A

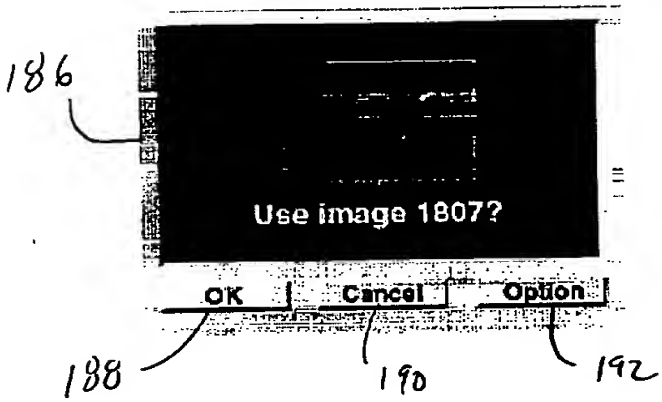


Figure 5B

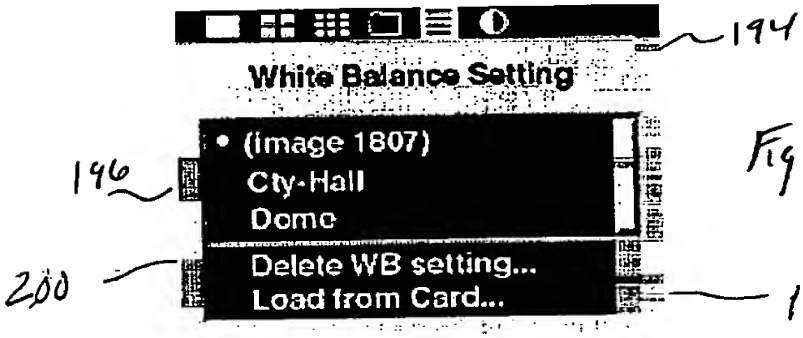


Figure 5C

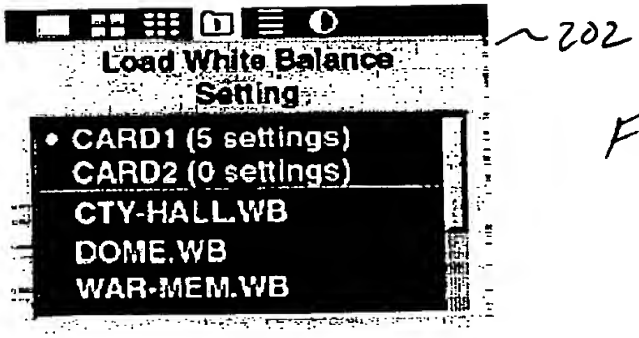


Figure 5D

"DETAIL" 5,745,760

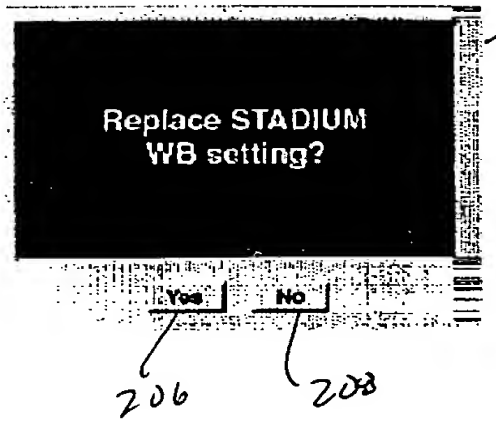


Figure 5E

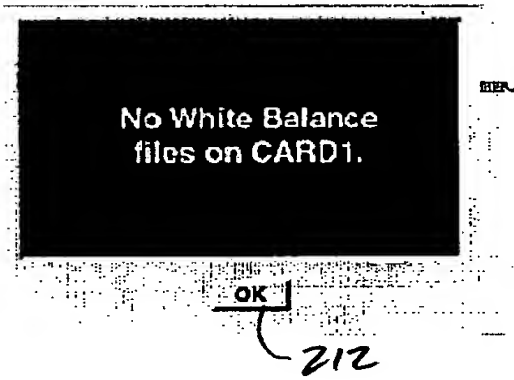


Figure 5F

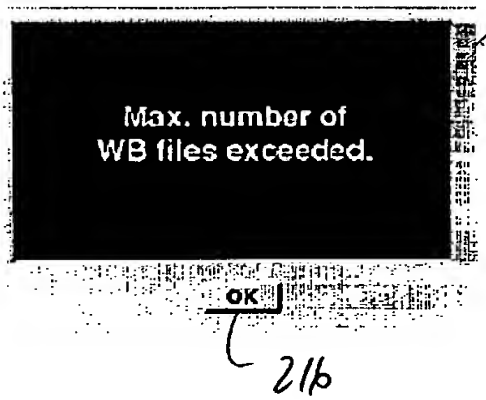


Figure 5G

0921-0112-US-0959-0925

09/594,795 - 011201

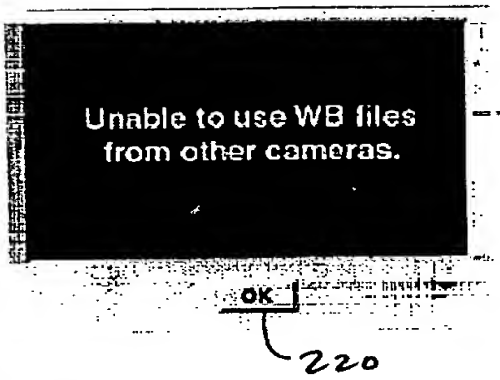


Figure 5H

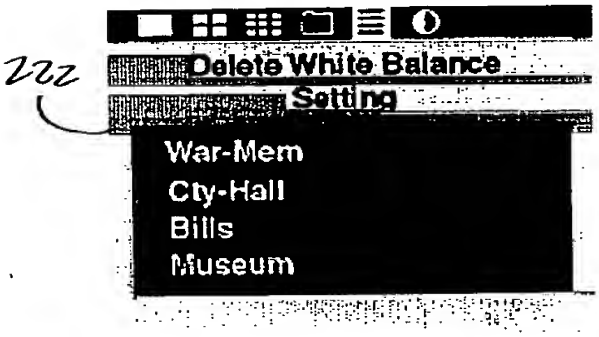


Figure 5I

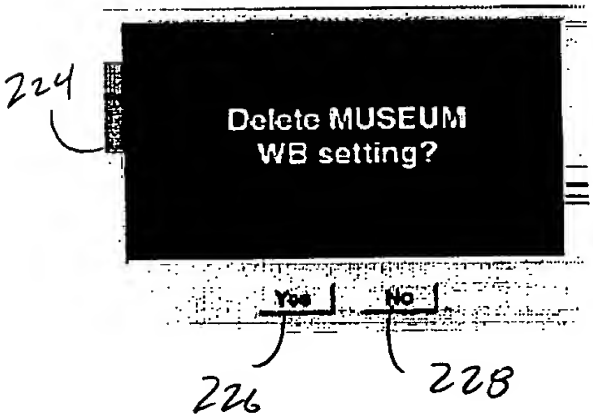


Figure 5J

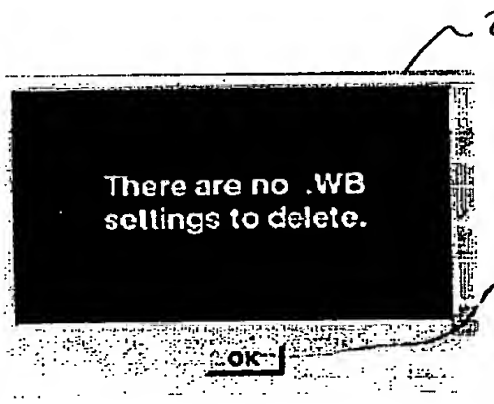


Figure 5K